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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,973	09/30/2003	Ikuo Nakano	49814 DIV (70904)	7679
21874 75	590 08/25/2004	·	EXAM	IINER
EDWARDS & ANGELL, LLP P.O. BOX 55874 BOSTON, MA 02205			HARRINGTON, ALICIA M	
		Constitution of the second second	ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Edwards & Angell LLP

101 Federal St. Boston MA, 02110

Docketed For_

Approved

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Edwards & Angell LLP

101 Federal St.,

Docketed For

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	Application No.	oplicant(s)	
	10/676,973	NAKANO ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Alicia M Harrington	2873	4 √)
The MAILING DATE of this communication a	_		is
Period for Reply	77		
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state that the period for the maximum statutory perions to reply received by the Office later than three months after the maximum date term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirt od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this commu ANDONED (35 U.S.C. § 133).	inication.
Status			
1)⊠ Responsive to communication(s) filed on an	nendment filed on 6/7/04.		•
	his action is non-final.		
3) Since this application is in condition for allow	vance except for formal matt	ers, prosecution as to the me	erits is
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 10-14 is/are pending in the application	tion.		
4a) Of the above claim(s) is/are withd			
5)⊠ Claim(s) <u>10-12</u> is/are allowed.			
6)⊠ Claim(s) <u>13</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		•
Application Papers			
9) The specification is objected to by the Exami	iner	·	
10)⊠ The drawing(s) filed on <u>07 June 2004</u> is/are:		cted to by the Examiner	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre	• ,	· ·	.121(d).
11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
	an priority under 25 11 5 C S	110(a) (d) or (f)	
12)⊠ Acknowledgment is made of a claim for foreignal All blue Some * cl None of:	gn phonty under 35 0.5.C. 9	119(a)-(u) or (i).	
1.⊠ Certified copies of the priority docume	ante have been received	·	
2. Certified copies of the priority docume		onlication No	
3. ☐ Copies of the certified copies of the pr			ne.
application from the International Bure			gc
* See the attached detailed Office action for a li		received.	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	_	formal Patent Application (PTO-152	2)
Paper No(s)/Mail Date	6) Other:	_ ·	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 13 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in Ex parte Wu, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of Ex parte Steigewald, 131 USPQ 74 (Bd. App. 1961); Ex parte Hall, 83 USPQ 38 (Bd. App. 1948); and Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949). In the present instance, claim 12 recites N≥2 recording layer, and the claim 13 recites "one recording layer" which is the narrower statement of the range/limitation. Therefore, claim 13 is in improper dependent form in that it doesn't include all the limitations of the independent resulting not clearly setting forth the metes and bounds of the protection desired.

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Claim 13 will be examined as best understood by the Examiner.

Response to Arguments

- 3. Applicant's arguments, see pages 15-16, filed 6/7/04, with respect to claims 10-12 have been fully considered and are persuasive. The rejection of claims 10-12 has been withdrawn.
- 4. Applicant's arguments filed 6/7/04 have been fully considered but they are not persuasive in relation to the 35 USC 112 second paragraph rejection of claim 13. As discussed above, claim 13 recites "one recording layer" which is the narrower statement of the range/limitation because claim 13 depends from claim 10;thus, claim 13 must encompass all the limitations of claim 10 plus those recited in claim 13. Therefore, claim 13 is in improper dependent form in that it doesn't include all the limitations of the independent claim as it relates to the number of recording layers N such that N≥2, as defined in claim 10. The claim does not clearly setting forth the metes and bounds of the protection desired.

Allowable Subject Matter

- 5. Claims 10-12 are allowed.
- 6. Claim 13 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 7. The following is a statement of reasons for the indication of allowable subject matter: Regarding claim 10, prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the dependent claims, in such manner that a

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rejection under 35 U.S.C 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims, which at least include the N recording layers comprise a first recording layer,..., an Nth recording layer in succession from the objective lens side, and an optical thickness at a mid-point between the first recording layer and the Nth recording layer is represented by t4, p4 and t4 are coincident with each other, and a converged light spot formed at the mid-point between the first recording layer and the Nth recording layer by the objective lens has a minimum spherical aberration when light rays emitted from the spherical-aberration correcting mechanism have a minimum spherical aberration as claimed.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M Harrington whose telephone number is 571 272 2330. The examiner can normally be reached on Monday - Thursday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571 272 2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alicia M Harrington Examiner Art Unit 2873

Y/// AMH

Georgia Epps
Supervisory Patent Examiner
Technology Center 2800